US Army Corps of Engineers®

Ecological Restoration Partnerships in New England

US Army Corps of Engineers
New England District

Torrington, CT
Trout Unlimited

Section 1135 - Modification of Existing Corps Structures

Faulkners Island, CT

COASTAL AMERICA
A Partnership for Action

Faulkners Island – US Fish and Wildlife Service Island

Nesting Habitat for

Galilee, RI Salt Marsh Restoration Project

Galilee, RI Salt Marsh Restoration Project

Undersized tidal connection

Misaligned culverts

COASTAL AMERICA
A Partnership for Action

Galilee, RI Salt Marsh Restoration Project

… Self Regulating Tide Gates

Salt Marsh Vegetation Colonization

Construction included federal partners

USFWS

Partners for Wildlife Program

Equipment

Phragmites Showing a Purple Haze as it Dies.

Phragmites Dominance Retreating

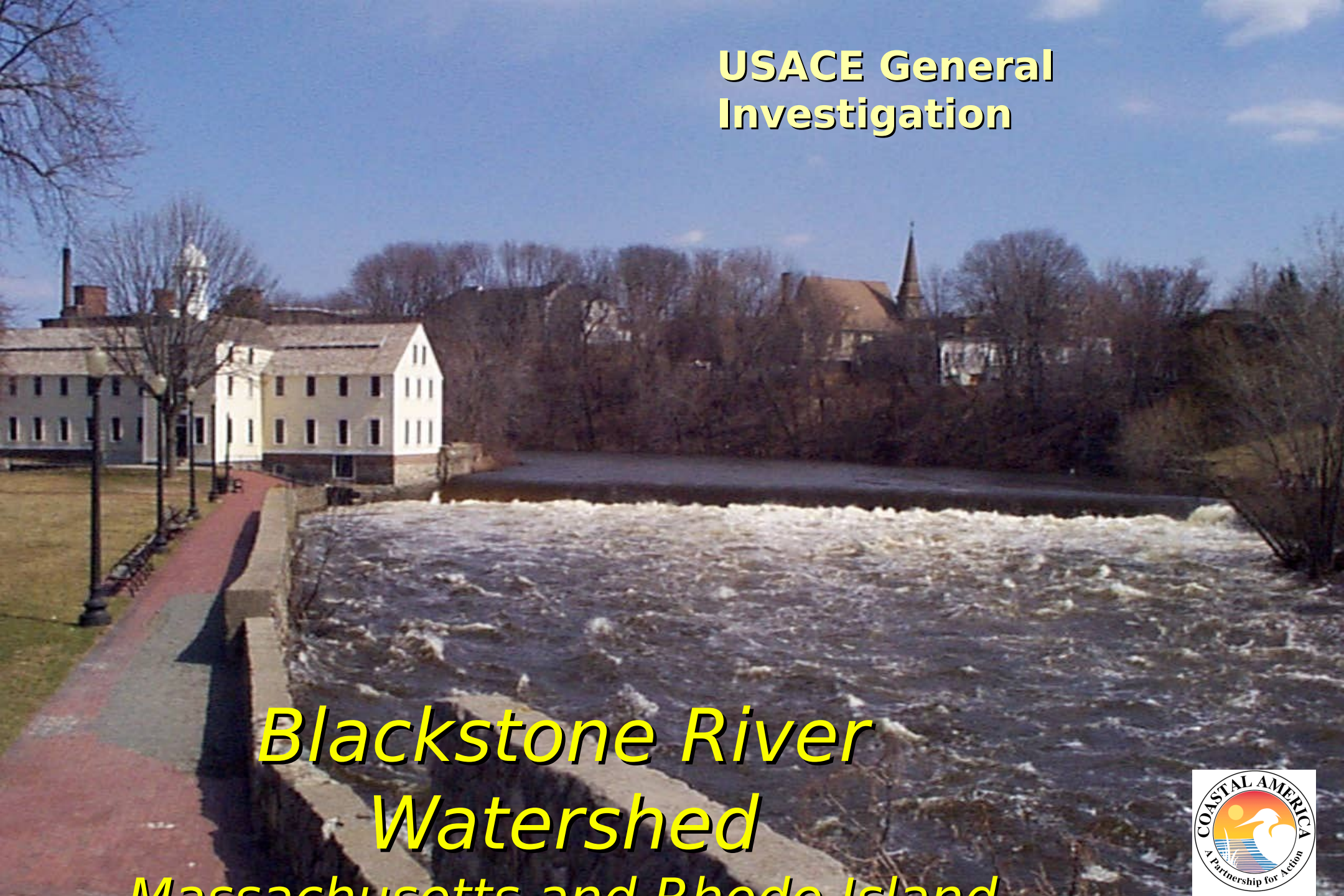
Phragmites Height Reduced

Galilee, RI Salt Marsh Restoration Project

Galilee, RI Salt Marsh Restoration Project

Galilee Partnership with RIDOT…

…generated a SFO for a bridge demolition to create a fish reef.

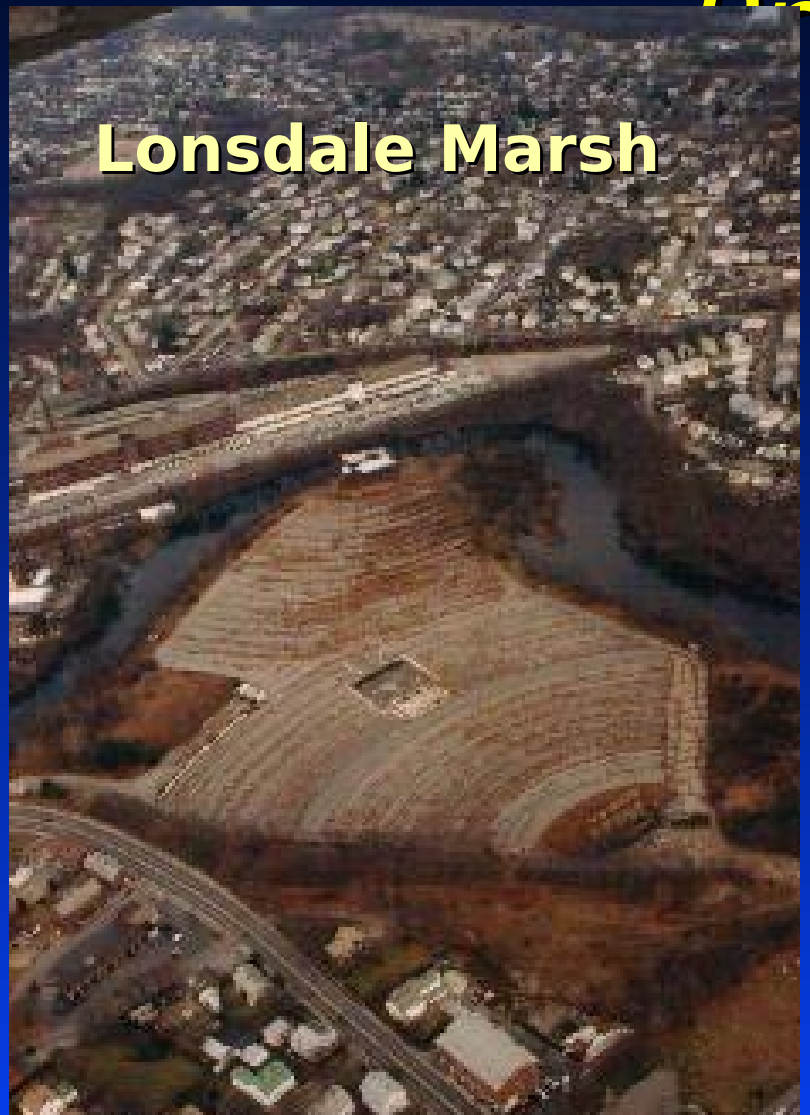


USACE General Investigation

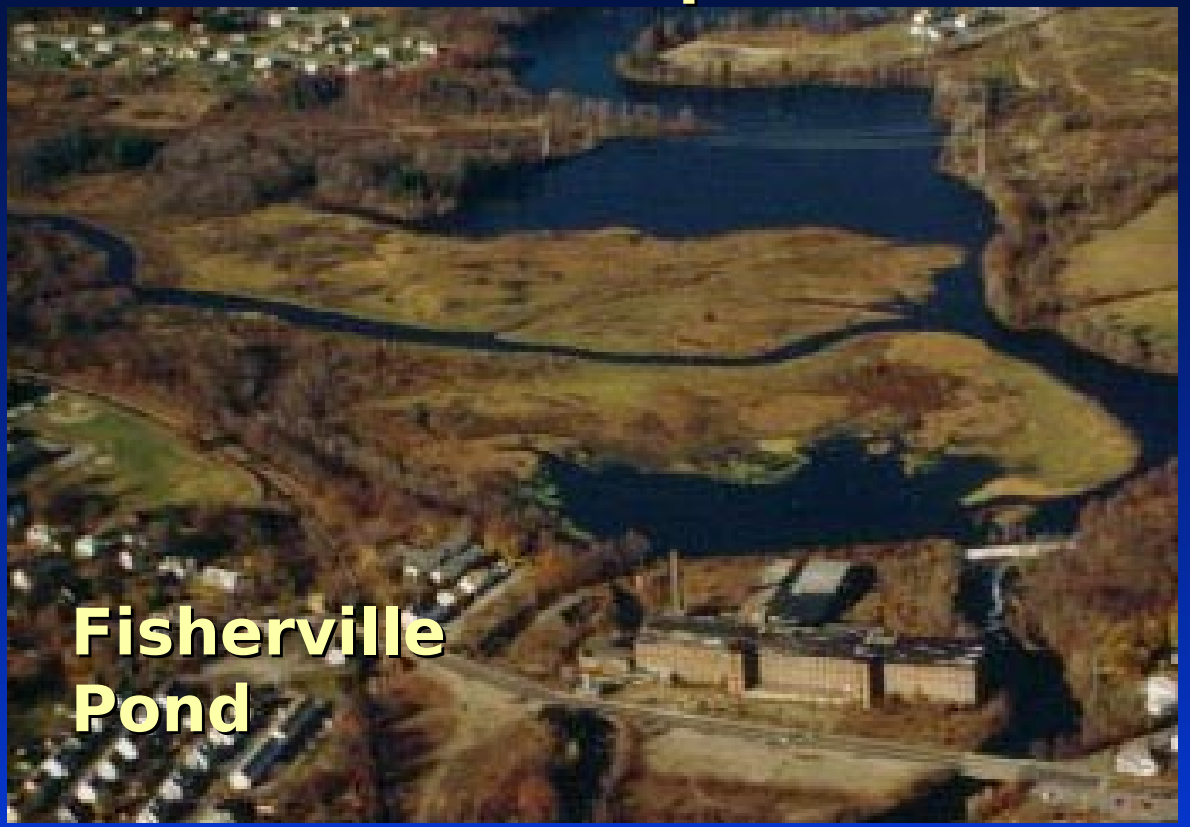
Blackstone River Watershed

Massachusetts and Rhode Island

Blackstone River Watershed Restoration Projects



RIDEM Partnership



MA Wetlands Restoration Partnership

Coastal Salt Ponds

Coastal Zone Management Partnership for Eelgrass and Anadromous Fisheries

Little River Salt Marsh

NEW HAMPSHIRE SUNDAY NEWS, Manchester, N.H. STATE & REGION

Route 1-A culvert project in final phase

FLOODING
(Continued From Page 31)

"This project will have a huge benefits to the residents of the area and to the marsh. We believe there will be significant ecological benefits and an absence of flooding," Diers said. "I'm amazed at the strong interest and support we've received locally, especially in North Hampton. The town has gone well beyond the line of duty, to get this project done."

Together, Hampton and North Hampton put up $80,000 for a study by the Army Corps of Engineers. The study recommended putting in the larger culvert as a way of preventing future flooding and restoring the marsh.

Other funders included the Fish and Wildlife Service, to the tune of $500,000, of which $200,000 came from the Coakley Landfill settlement and $350,000 from the Natural Resource Conservation Service, a federal agency. Additional money was received from the Fish and Wildlife Foundation and Ducks Unlimited, which also provided in-kind services, needed to match the federal dollars.

Other in-kind services were provided by the Town of North Hampton and the New Hampshire Department of Transportation.

Jerry Miller Photo

WORKERS prepare a portion of the six-foot high, 24-inch wide culvert for placement along Route 1-A, North Hampton.

The project is now in its third and final phase, which has led to the forced closure of a small section of Route 1-A. The area will remain closed to traffic until the first week in November.

The work also forced the temporary removal of several fish houses located on Route 1-A. The buildings will be returned to their land once the work has been completed.

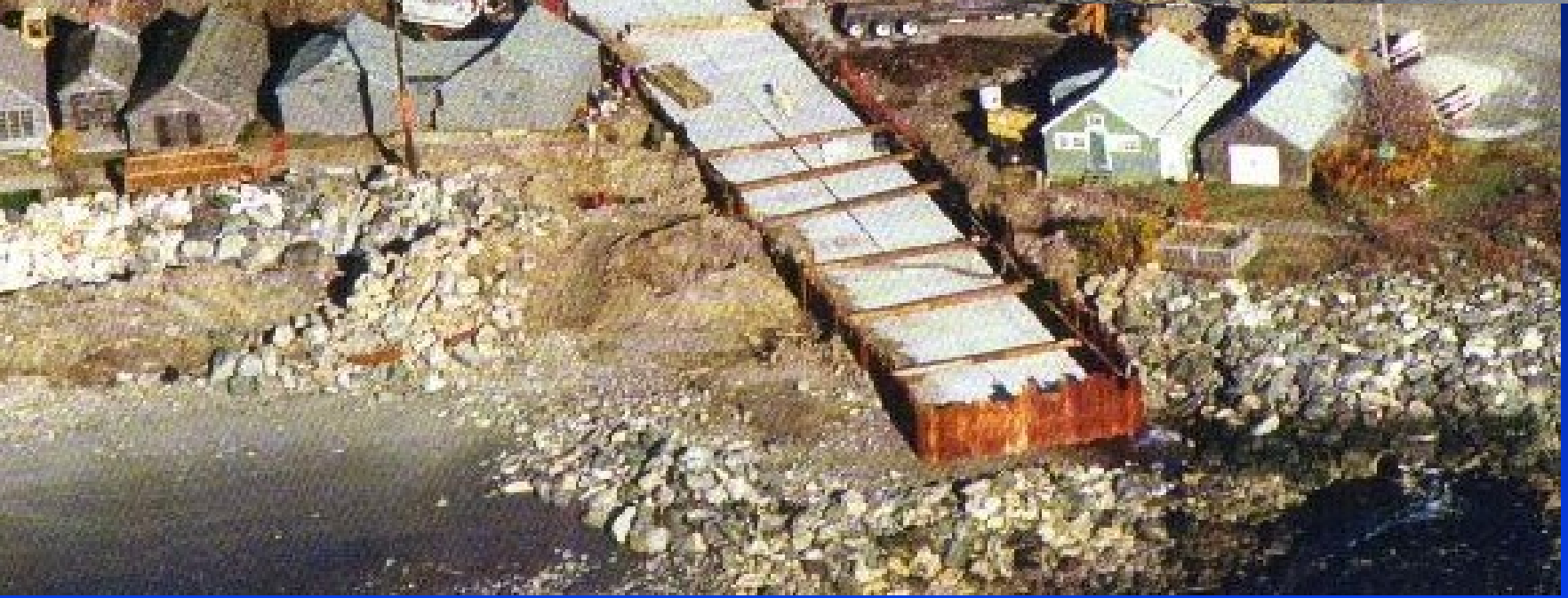
According to Diers, the flooding and marsh destruction have been problems for a decade.

The last serious flooding occurred in October 1996.

NRCS Restoration lead

USACE Section 22 Study

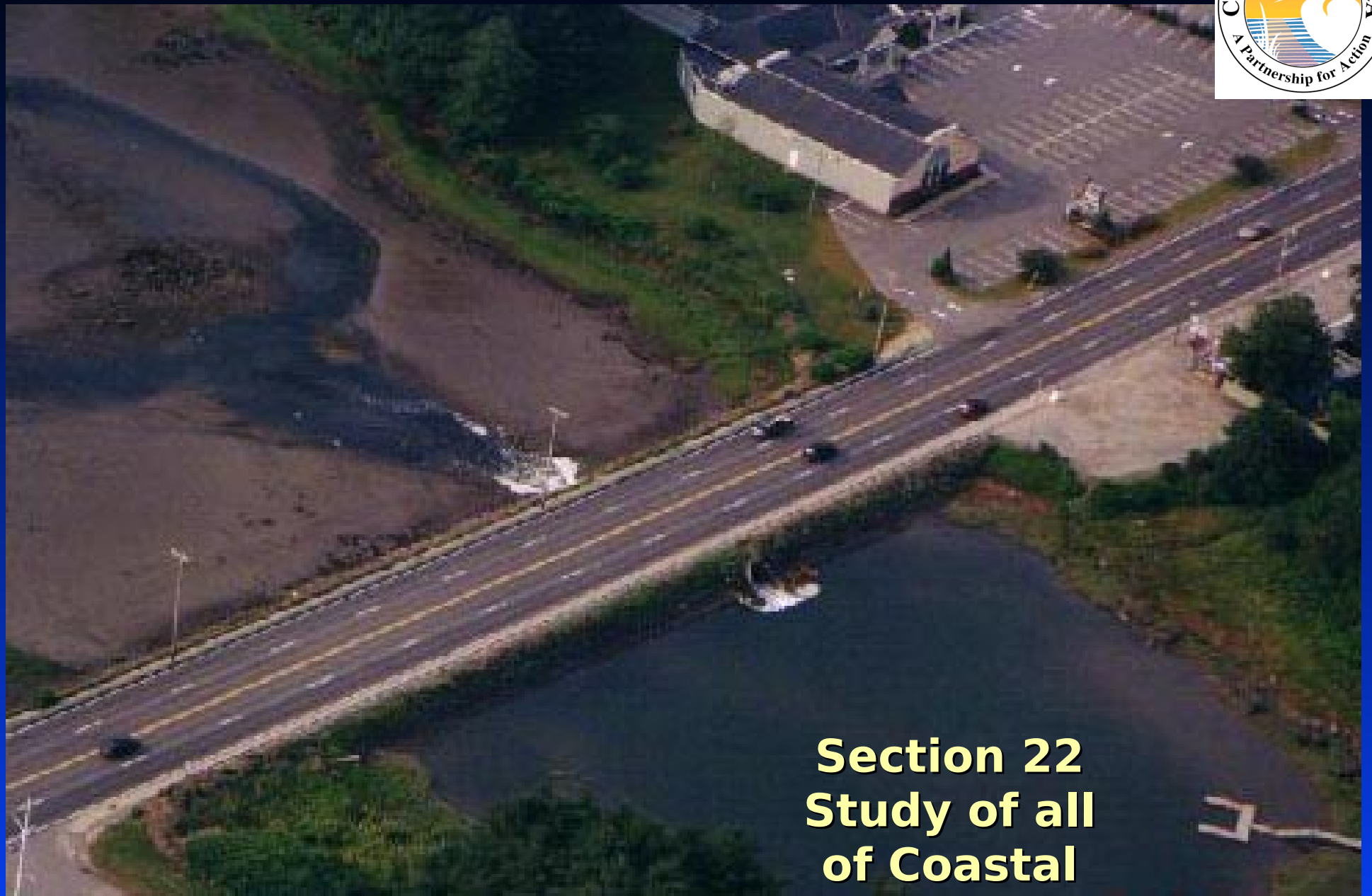
COASTAL AMERICA
A Partnership for Action



NRCS
75%

USACE
65%

Maine DOT and USACE

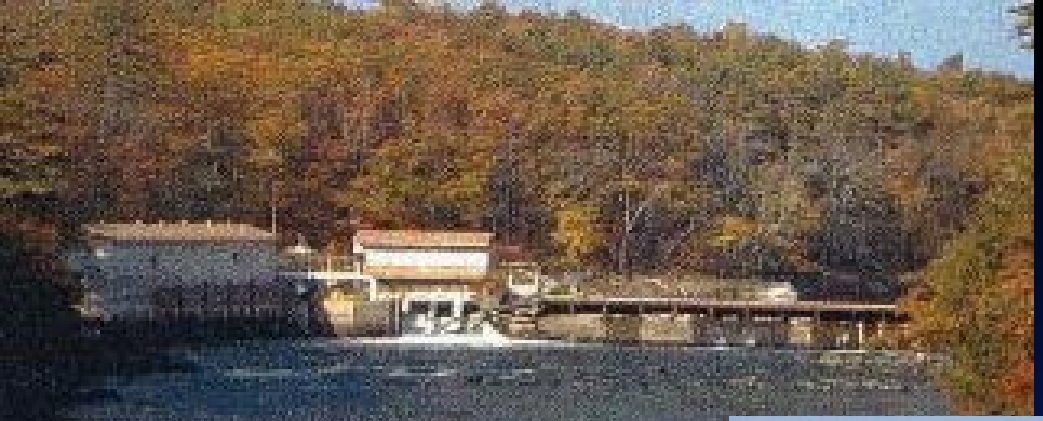


Section 22 Study of all of Coastal

Anadromous Fisheries Restoration Presumpscott River, Maine

WRP
Corporate Wetlands
Restoration Partnership
MAINE
MARINE RESOURCES

COSTELLO



1999

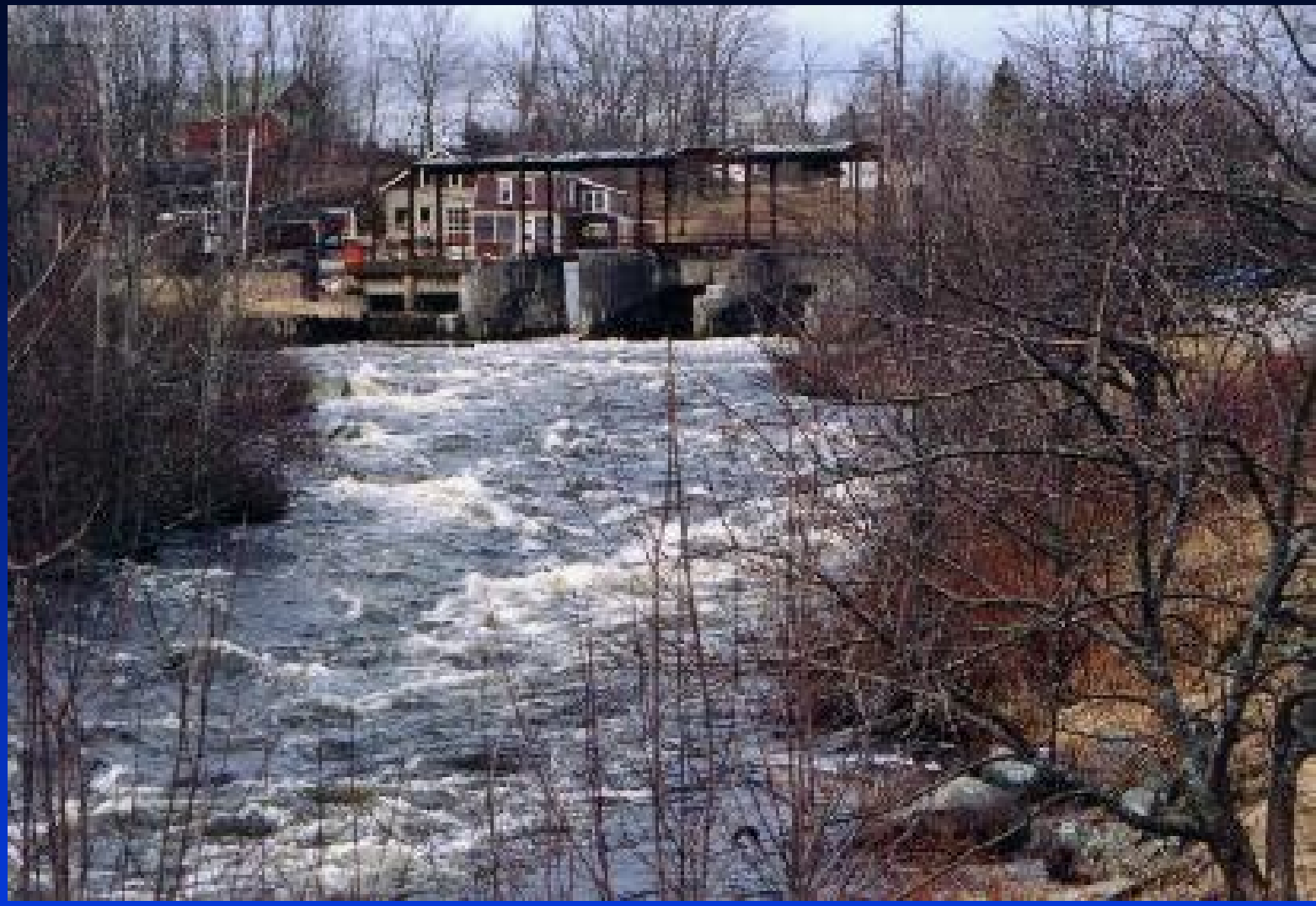
2002

East Machias Dam

USAF Innovative Readiness Training Exercise

USACE and NRCS

Technical Support - Restoring an Atlantic Salmon Migration Corridor as a Military Training Exercise



COASTAL AMERICA - IRT

East Machias

USAF Training Exercise

Innovative Readiness Training

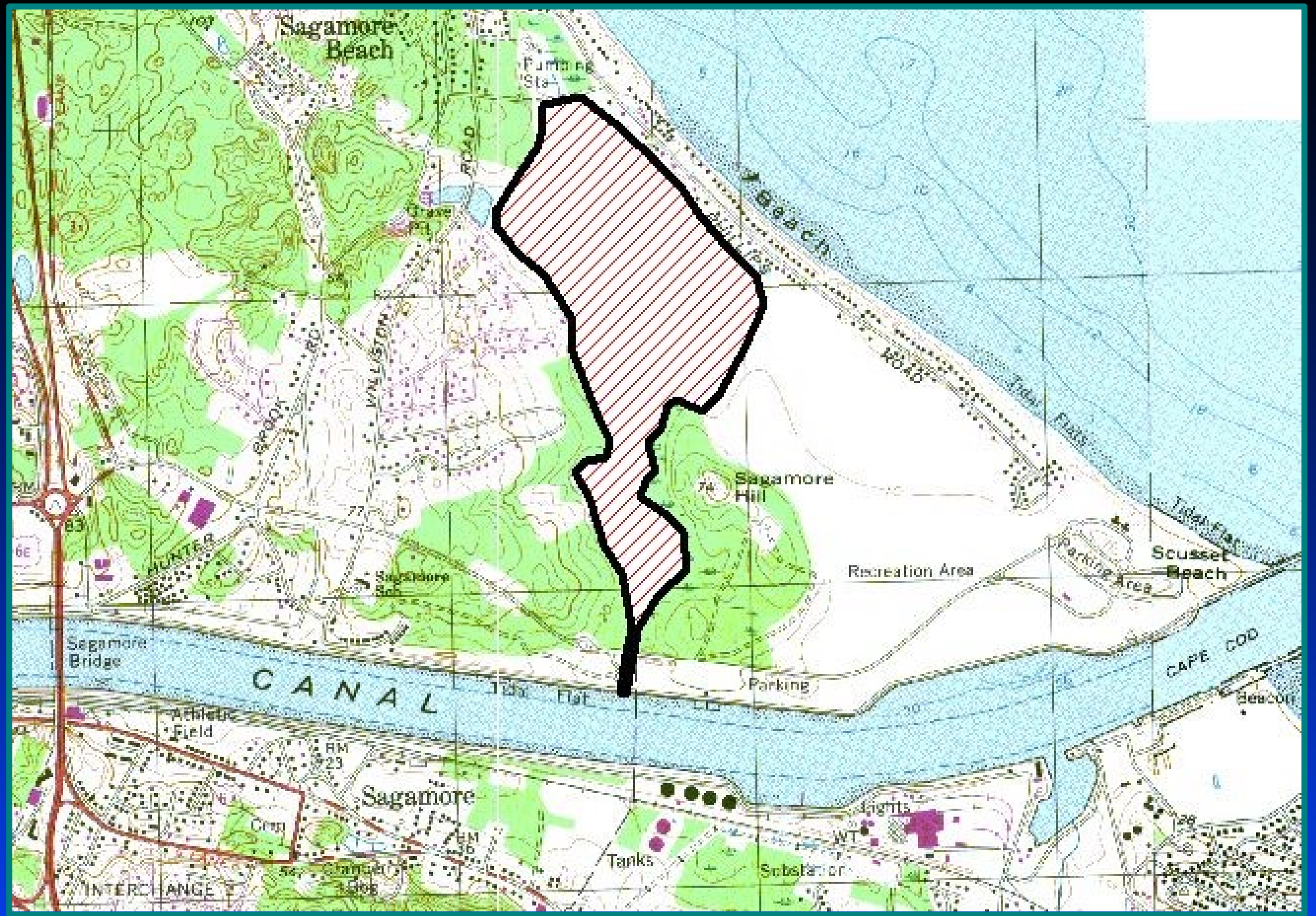
Corporate Wetlands Restoration Partnership

Sagamore Marsh Project, Massachusetts

Project: Restoration of 76 acres of tidal marsh estuarine habitat damaged by Cape Cod Canal expansion in 1930's.

Partners: USACE, USEPA, USFWS, NOAA, Mass. EOEA, Mass. DEM, The Gillette Company

Sagamore Marsh


Sagamore Beach
Pumping Sta
Beach
ROAD
Tidal Flats
Tidal Flats
Sagamore Hill
Recreation Area
Parking Area
Scusset Beach
Sagamore Bridge
CANAL
Parking
CAPE COD
Athletic Field
Sagamore
Lights
Tanks
Substation
INTERCHANGE
HUNTER
WALLSTON
BROOK RD

Section 1135 - Salt Marsh Restoration

Completed Tidal
Connection to Cape
Cod Canal

Healthy *Spartina*
marsh outcompeting
the *Phragmites*

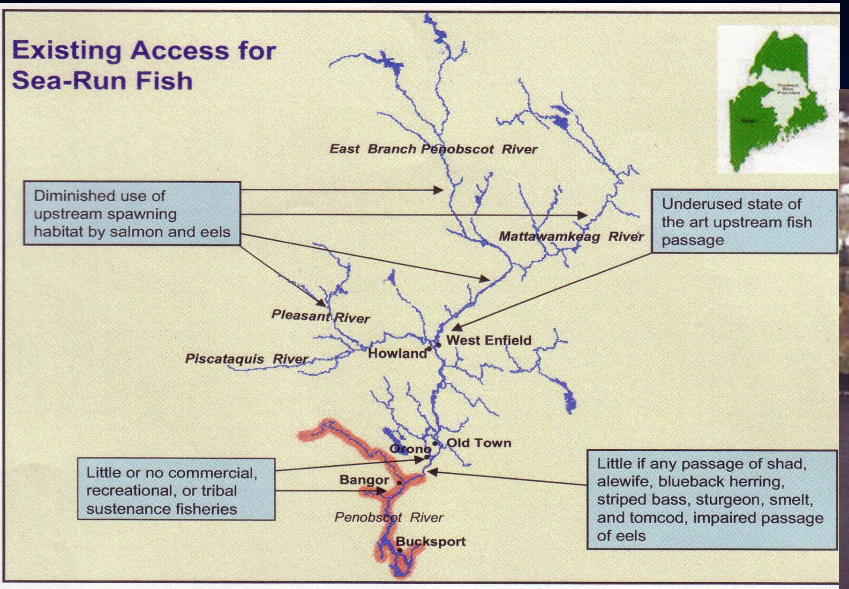
What's next?

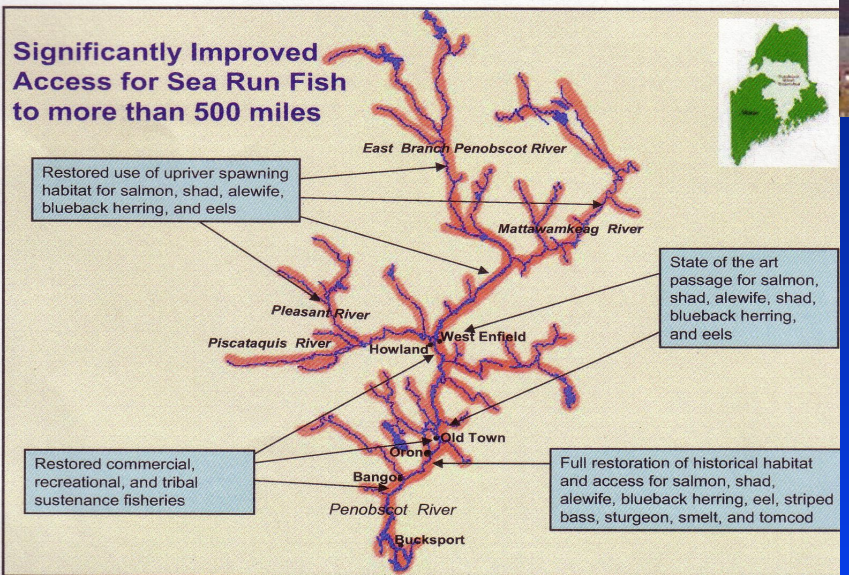
Other projects our partners in Maine have brought to us...

Sandy River, Madison, Maine

Montsweag Brook, Maine

Penobscot River Watershed


Existing Access for Sea-Run Fish
East Branch Penobscot River
Diminished use of upstream spawning habitat by salmon and eels
Underused state of the art upstream fish passage
Mattawamkeag River
Pleasant River
Piscataquis River
Howland
West Enfield
Orono
Old Town
Bangor
Little or no commercial, recreational, or tribal sustenance fisheries
Little if any passage of shad, alewife, blueback herring, striped bass, sturgeon, smelt, and tomcod, impaired passage of eels
Penobscot River
Bucksport


Significantly Improved Access for Sea Run Fish to more than 500 miles
East Branch Penobscot River
Restored use of upriver spawning habitat for salmon, shad, alewife, blueback herring, and eels
Mattawamkeag River
State of the art passage for salmon, shad, alewife, shad, blueback herring, and eels
Pleasant River
Piscataquis River
Howland
West Enfield
Old Town
Orono
Bangor
Restored commercial, recreational, and tribal sustenance fisheries
Full restoration of historical habitat and access for salmon, shad, alewife, blueback herring, eel, striped bass, sturgeon, smelt, and tomcod
Penobscot River
Bucksport

- Open 500 miles of the Penobscot River
- Largest remaining population of Atlantic salmon in the

More Information?

- http://www.nae.usace.army.mil
- http://www.coastalamerica.gov